

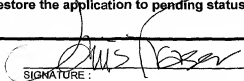
JC17 PCT/PTO 1 MAY 2001

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| SUBSTITUTE FORM PTO-1590 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE   |   | ATTORNEY'S DOCKET NUMBER<br>06501-080001  |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b>  |   |   |
| U.S. APPLICATION NO. (If Known, see 37 CFR 1.5)  | 09/831591                                   |   |
| INTERNATIONAL APPLICATION NO.<br>PCT/JP99/04520  | INTERNATIONAL FILING DATE<br>23 August 1999 | PRIORITY DATE CLAIMED<br>13 November 1998 |
| TITLE OF INVENTION<br>HYBRIDIZATION PROBE  |   |   |
| APPLICANT(S) FOR DO/EO/US<br>Tomoyasu Sugiyama, Toshio Ota, Shizuko Ishii and Ai Wakamatsu   |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:<br>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.<br>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.<br>3. <input checked="" type="checkbox"/> This is an express request to promptly begin national examination procedures (35 U.S.C. 371(f)).<br>4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (PCT Article 31).<br>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)).<br>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).<br>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.<br>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).<br>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).<br>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<br>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).<br>b. <input type="checkbox"/> have been communicated by the International Bureau.<br>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.<br>d. <input checked="" type="checkbox"/> have not been made and will not be made.<br>8. <input type="checkbox"/> An English language translation of amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).<br>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).<br>10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).<br><b>Items 11 to 16 below concern other documents or information included:</b><br>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.<br>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.<br>13. <input type="checkbox"/> A FIRST preliminary amendment.<br><input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment.<br>14. <input type="checkbox"/> A substitute specification.<br>15. <input type="checkbox"/> A change of power of attorney and/or address letter.<br>16. <input type="checkbox"/> Other items or information:<br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/><br><input type="checkbox"/> |   |   |

**CERTIFICATE OF MAILING BY EXPRESS MAIL** Express Mail Label No. **EL624321289US**

I hereby certify under 37 CFR §1.10 that this correspondence is being deposited with the United States Postal Service as Express Mail Post Office to Addressee with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20591.

**May 11, 2001** *Samantha Bell*  
 Date of Deposit Signature Typed Name of Person Signing

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|---|--------------|---|--|--|--|
| U.S. APPLICATION NO. (IF KNOWN) <b>09/831591</b>  |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP99/04520 |  | ATTORNEY'S DOCKET NUMBER<br>06501-080001 |  |
| 17. <input checked="" type="checkbox"/> The following fees are submitted:   |              |   |  | <b>CALCULATIONS PTO USE ONLY</b>         |  |
| <b>Basic National Fee (37 CFR 1.492(a)(1)-(5)):</b>   |              |   |  |  |  |
| Neither international preliminary examination fee (37 CFR 1.482)<br>nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO<br>and International Search Report not prepared by the EPO or JPO ..... <b>\$1000</b>   |              |   |  |  |  |
| International preliminary examination fee (37 CFR 1.482) not paid to<br>USPTO but International Search Report prepared by the EPO or JPO ..... <b>\$860</b>   |              |   |  |  |  |
| International preliminary examination fee (37 CFR 1.482) not paid to USPTO but<br>international search fee (37 CFR 1.445(a)(2)) paid to USPTO ..... <b>\$710</b>  |              |   |  |  |  |
| International preliminary examination fee paid to USPTO (37 CFR 1.482)<br>but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... <b>\$690</b>   |              |   |  |  |  |
| International preliminary examination fee paid to USPTO (37 CFR 1.482)<br>and all claims satisfied provisions of PCT Article 33(1)-(4) ..... <b>\$100</b>   |              |   |  |  |  |
| <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>   |              |   |  |  |  |
| Surcharge of <b>\$130</b> for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(e)).  |              |   |  | <b>\$0.00</b>                            |  |
| Claims  | Number Filed | Number Extra                                    | Rate   |  |  |
| Total Claims  | 16 - 20 =    | 0   | x <b>\$18</b>  | <b>\$0.00</b>                            |  |
| Independent Claims  | 4 - 3 =      | 1   | x <b>\$80</b>  | <b>\$80.00</b>                           |  |
| MULTIPLE DEPENDENT CLAIMS(S) (if applicable)  |              |   | + <b>\$270</b>   | <b>\$270.00</b>                          |  |
| <b>TOTAL OF ABOVE CALCULATIONS =</b>  |              |   |  | <b>\$1,210.00</b>                        |  |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are<br>reduced by 1/2.  |              |   |  | <b>\$605.00</b>                          |  |
| <b>SUBTOTAL =</b>   |              |   |  | <b>\$605.00</b>                          |  |
| Processing fee of <b>\$130</b> for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30<br>months from the earliest claimed priority date (37 CFR 1.492(f)).   |              |   |  | <b>\$0.00</b>                            |  |
| <b>TOTAL NATIONAL FEE =</b>   |              |   |  | <b>\$605.00</b>                          |  |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be<br>accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +  |              |   |  | <b>\$0.00</b>                            |  |
| <b>TOTAL FEES ENCLOSED =</b>  |              |   |  | <b>\$605.00</b>                          |  |
|   |              |   |  | <b>Amount to be refunded: \$</b>         |  |
|   |              |   |  | <b>Charged: \$</b>                       |  |
| a. <input checked="" type="checkbox"/> A check in the amount of \$605.00 to cover the above fees is enclosed.<br>b. <input type="checkbox"/> Please charge my Deposit Account No. 06-1050 in the amount of \$0.00 to cover the above fees. A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1050. A duplicate copy of this sheet is enclosed. |              |   |  |  |  |
| <b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b) must be filed and granted to restore the application to pending status.</b>   |              |   |  |  |  |
| SEND ALL CORRESPONDENCE TO:   |              |   |  |  |  |
| Janis K. Fraser, Ph.D., J.D.<br>FISH & RICHARDSON P.C.<br>225 Franklin Street<br>Boston, MA 02110-2804<br>(617) 542-5070 phone<br>(617) 542-8906 facsimile  |              |   | <div style="text-align: center;"> <br/>           SIGNATURE:         </div> <div style="text-align: center;">           NAME: Janis K. Fraser, Ph.D., J.D.         </div> <div style="text-align: center;">           REGISTRATION NUMBER: 34,819         </div> |  |  |

patent application serial no.

**09/831591**

*Department of Commerce  
Patent and Trademark Office  
for record*

05/16/2001 UEDUVIJE 00000078 09831591

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| 01 FC:971 | 430.00 OP |
| 02 FC:965 | 40.00 OP  |
| 03 FC:969 | 135.00 OP |